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| APPLICATION NO.   | FILING DATE          | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|----------------------|----------------------|---------------------|------------------|
| 10/054,147  | 01/21/2002           | Nobuhiro Itoh        | 2271/66652          | 5134             |
| 7590 03/21/2007<br>RICHARD F. JAWORSKI<br>Cooper & Dunham LLP |                      |                      | EXAMINER            |                  |
|   |                      |                      | WORKU, NEGUSSIE     |                  |
| 1185 Avenue of the Americas<br>New York, NY 10036             |                      |                      | ART UNIT            | PAPER NUMBER     |
| •   |                      |                      | .2625               |                  |
| SHORTENED STATISTOR   | Y PERIOD OF RESPONSE | MAIL DATE            | DELIVED             | V MODE           |
| SHOKTENED STATUTOR  | 1 FERIOD OF RESPONSE | MAIL DATE            | DELIVERY MODE       |                  |
| 3 MONTHS  |                      | 03/21/2007           | , PAPER             |                  |

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

|  |  | Application No.   | Applicant(s)   |  |  |  |
|--|--|---|--|--|--|--|
| Office Action Summary  |  | 10/054,147  | ITOH, NOBUHIRO   |  |  |  |
|  |  | Examiner  | Art Unit   |  |  |  |
|  |  | Negussie Worku  | 2626 2625  |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply   |  |   |  |  |  |  |
| THE MAILING DATE (  - Extensions of time may be an after SIX (6) MONTHS from the second of the specification of the second of th | OF THIS COMMUNICATION. vailable under the provisions of 37 CFR 1.13 the mailing date of this communication. d above is less than thirty (30) days, a reply iffied above, the maximum statutory period with or extended period for reply will, by statute, fice later than three months after the mailing | 'IS SET TO EXPIRE 3 MONTH(s)  6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONED date of this communication, even if timely filed | nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133). |  |  |  |
| Status   |  |   |  |  |  |  |
| 1) Responsive to c   | communication(s) filed on <u>18 Ja</u>   | nuary 2007.   |  |  |  |  |
| 2a)⊠ This action is FI   |  |   |  |  |  |  |
|  | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  |   |  |  |  |  |
| Disposition of Claims  |  | •   |  |  |  |  |
| 4a) Of the above 5) ☐ Claim(s) 6) ☑ Claim(s) <u>1-12</u> is. 7) ☐ Claim(s)   |  |   |  |  |  |  |
| Application Papers   |  |   |  |  |  |  |
| 9)☐ The specification  | is objected to by the Examiner   | •   |  |  |  |  |
| 10)⊠ The drawing(s) filed on <u>21 January 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.   |  |   |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |  |   |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |  |   |  |  |  |  |
| Priority under 35 U.S.C.   | § 119  |   |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  |  |   |  |  |  |  |
| Attachment(s)  |  |   |  |  |  |  |
| 1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  |  |   |  |  |  |  |
|  | Patent Drawing Review (PTO-948) atement(s) (PTO-1449 or PTO/SB/08) attachment  | Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:  | te<br>atent Application (PTO-152)  |  |  |  |

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### **DETAILED ACTION**

- This Office action is in response to amendment filed on Jan 18, 2007. Claims 1 are pending in the application, in which, claim 13 is cancelled.
- 2. Applicant's arguments with respect to claims 1 and 5 have been considered but are most in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, *THIS ACTION IS MADE FINAL*.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-12, are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshihara et al. (USP 5,465,163) in view of Goldberg et al. (USP 6,223,181) and Murakami et al (USP 6,148,118)

Regarding to claim 1, Yoshihara teaches or discloses a facsimile device (a image reading device of fig 1 and 2) comprising: inputting means (image reading unit 20 of fig 2) for inputting image data of a subject copy having a width in a main scanning direction

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larger than an A3-size width, said inputting means including scanner means to scan the subject copy having a size larger than the A3-size, see (col.6, lines 14-25); reading means (scanner 20 of fig 1 and 2) for divisively reading lines of said image data in a sub-scanning direction by dividing said image data into divisional lines of data having a predetermined width, (as shown in fig 5, one image original is divided and is read in four reading portion, col.5, lines 35-40).

Yoshihara. does not disclose image rotating means for performing an image rotation with respect to each of said divisional lines of data so as to supply rotated divisional lines; an encoding means for encoding each of said rotated divisional lines into encoded data; and outputting means for outputting said encoded data.

Goldberg et al. in the same area of image reading and processing apparatus teaches image rotating means (image processing module 10, comprises a rotation module 20) for performing an image rotation with respect to each of said divisional lines of data so as to supply rotated divisional lines (col.3, lines 20-30); an encoding means (encoder/decoder module 18 of 1A) for encoding each of said rotated divisional lines into encoded data, col.3, lines 30-40); and outputting means (6 of fig 1A) for outputting said encoded data, (col.3, lines 1-5).

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the imaging apparatus of Yoshihara et al. to include: image rotating means for performing an image rotation with respect to each of said divisional lines of data so as to supply rotated divisional lines; an encoding

means for encoding each of said rotated divisional lines into encoded data; and outputting means for outputting said encoded data.

It would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the imaging device of Yoshihara et al. by the teaching of Goldberg et al., for the purpose to provide a system for performing rotation of an image, that is capable of reducing the memory needed for rotation while providing flexibility in image transmission and processing techniques that can be used to reconstruct the image.

Yoshihara et al. as modified by Goldberg et al. still do not teach wherein reading means detects whether the size of the subject copy larger than the A3-size, and if the size of the subject copy is larger than the A.3-size, automatically divides the subject copy into at least two read areas according to a specified overlapping width.

Murakami et al. teaches wherein reading means (image reading portion 2 of fig 1) detects whether the size of the subject copy larger than the A3-size, (A3 of fig 29) and if the size of the subject copy is larger than the A.3-size, (col.16, lines 40-50) automatically divides the subject copy into at least two read areas according to a specified overlapping width (col.17, lines 1-10).

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the imaging apparatus of Yoshihara et al. as modified by Goldberg et al. by: providing reading means detects whether the size of the subject copy larger than the A3-size, and if the size of the subject copy is

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larger than the A.3-size, automatically divides the subject copy into at least two read areas according to a specified overlapping width.

It would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the imaging device of Yoshihara as modified by Goldberg et al., by the teaching of Murakami because of the following reasons:

It would have allowed a user to have a joining technique, which avoids loss and overlap of image, and the adjacent portions of image are read in an overlapped manner so that no part of the original image is lost at over lapping part of the document.

Regarding to claim 2, Yoshihara teaches or discloses a facsimile device (a image reading device of fig 1 and 2), wherein said reading means (image reading device 20 of fig 3) divisively reads said lines of said image data in said sub-scanning direction by scanning a plurality of areas [original is divided and is read in plurality of area, col.5, line 35] of said image data sharing an overlapping width predetermined in said sub-scanning direction, (col.5, line 35-37, [overlap areas and broken lines, col.6, lines 14-25]).

Regarding to claim 3, Yoshihara teaches or discloses a facsimile device (a image reading device of fig 1 and 2), wherein said reading means (20 of fig 3) divisively reads said lines of said image data in said sub-scanning direction by dividing said image data of the subject copy at a predetermined page [original is divided and is read in plurality of area, col.5, line 35] into said divisional lines of data (col.5, lines 40-45)

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Regarding to claim 4, Yoshihara teaches or discloses a facsimile device (a image reading device of fig 1 and 2), wherein said reading means (20 of fig 3) reductively reads image data of a subject copy having a width larger than said A3-size width by reducing said image data as a whole to said A3-size width, (col.6, lines 14-18) when said subject copy is not at a page to be divisively read, [original is divided and is read in plurality of area, col.5, line 35] (col.5, lines 40-45).

Regarding to claim 5, Yoshihara teaches or discloses a facsimile device (a image reading device of fig 1 and 2) a method comprising: inputting step (image reading unit 20 of fig 2) of inputting image data of a subject copy having a width in a main scanning direction larger than an A3-size width, inputting means including scanner means to scan the subject copy having a size larger than the A3-size, see (col.6, lines 14-25), see (col.6, lines 14-25); reading step (scanner 20 of fig 1 and 2) for divisively reading lines of said image data in a sub-scanning direction by dividing said image data into divisional lines of data having a predetermined width, (as shown in fig 5, one image original is divided and is read in four reading portion, col.5, lines 35-40).

Yoshihara does not disclose image rotating step for performing an image rotation with respect to each of said divisional lines of data so as to supply rotated divisional lines; an encoding step for encoding each of said rotated divisional lines into encoded data; and outputting means for outputting said encoded data.

Goldberg et al. in the same area of image reading and processing apparatus teaches image rotating means (image processing module 10, comprises a rotation module 20) for performing an image rotation with respect to each of said divisional lines of data so as to supply rotated divisional lines (col.3, lines 20-30); an encoding means (encoder/decoder module 18 of 1A) for encoding each of said rotated divisional lines into encoded data, col.3, lines 30-40); and outputting means (6 of fig 1A) for outputting said encoded data, (col.3, lines 1-5).

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the imaging apparatus of Yoshihara et al. to include: image rotating means for performing an image rotation with respect to each of said divisional lines of data so as to supply rotated divisional lines; an encoding means for encoding each of said rotated divisional lines into encoded data; and outputting means for outputting said encoded data.

It would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the imaging device of Yoshihara et al. by the teaching of Goldberg et al., for the purpose to provide a system for performing rotation of an image, that is capable of reducing the memory needed for rotation while providing flexibility in image transmission and processing techniques that can be used to reconstruct the image.

Yoshihara et al. as modified by Goldberg et al. still do not teach deterring whether the size of the subject copy larger than the A3-size, and if the size of the subject copy is

larger than the A.3-size, automatically divides the subject copy into at least two read areas according to a specified overlapping width.

Murakami et al. teaches determining (image reading portion 2 of fig 1) whether the size of the subject copy larger than the A3-size, (A3 of fig 29) and if the size of the subject copy is larger than the A.3-size, (col.16, lines 40-50) automatically divides the subject copy into at least two read areas according to a specified overlapping width (col.17, lines 1-10).

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the imaging apparatus of Yoshihara et al. as modified by Goldberg et al. by: providing detecting whether the size of the subject copy larger than the A3-size, and if the size of the subject copy is larger than the A.3-size, automatically divides the subject copy into at least two read areas according to a specified overlapping width.

It would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the imaging device of Yoshihara as modified by Goldberg et al., by the teaching of Murakami because of the following reasons:

It would have allowed a user to have a joining technique, which avoids loss and overlap of image, and the adjacent portions of image are read in an overlapped manner so that no part of the original image is lost at over lapping part of the document.

Regarding to claim 6, Yoshihara teaches or discloses the method (a image reading device of fig 1 and 2), wherein said reading step (image reading device 20 of fig

3) divisively reads said lines of said image data in said sub-scanning direction by scanning a plurality of areas [original is divided and is read in plurality of area, col.5, line 35] of said image data sharing an overlapping width predetermined in said sub-scanning direction, (col.5, line 35-37, [overlap areas and broken lines, col.6, lines 14-25]).

Regarding to claim 7, Yoshihara teaches or discloses the method (a image reading device of fig 1 and 2), wherein said reading step (20 of fig 3) divisively reads said lines of said image data in said sub-scanning direction by dividing said image data of the subject copy at a predetermined page [original is divided and is read in plurality of area, col.5, line 35] into said divisional lines of data (col.5, lines 40-45)

Regarding to claim 8, Yoshihara teaches or discloses the method (a image reading device of fig 1 and 2), wherein said reading step (20 of fig 3) reductively reads image data of a subject copy having a width larger than said A3-size width by reducing said image data as a whole to said A3-size width, (col.6, lines 14-18) when said subject copy is not at a page to be divisively read, [original is divided and is read in plurality of area, col.5, line 35] (col.5, lines 40-45).

With respect to claim 9, Yoshihara et al. teaches the facsimile device (fig 1-3) wherein said reading means (read image 20 of fig 3) detects whether the width of said subject copy in the main scanning direction is larger than an A3-size width, (co.5, lines 5, 30-35) and if the width of said subject copy is larger than an A3-size width, (original

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image fig 6(1), which is larger in size than A3-size divided in four portion, reduce into one image having the size of A3-size image, col.6, lines 150 20) automatically dividing said subject copy in the sub-scanning direction into at least two portions (fig 5, a divided original image into four different portion).

With respect to claim 10, Yoshihara et al. teaches the facsimile device (fig 1-3), further comprising user operation means, (operation unit 10 of fig 1) wherein a user specifies a page dividing mode through said user operation means, (col.4, lines 5-10) and said reading means (20 of fig 1) performs said automatic dividing if the user specifies said page dividing mode, (col.4, lines 55-60).

With respect to claim 11, Yoshihara et al. teaches the facsimile device (fig 1-3), wherein the divisional lines of data (col.4, lines 60-65) corresponding to the encoded data out by said outputting means (image out put 40 of fig 3) are un-changes in scale (the outputted image is not changed in size, (col.6, line 45-50).

With respect to claim 12, Yoshihara et al. teaches the facsimile device (fig 1-3), wherein, the at leas two portions of the subject copy are automatically determined according to an overlapping width specified by an operator (col.6, lines 14-25).

4. Applicant's response filed on Jan 18, 2007, has been reviewed and respectfully considered. However, up on further consideration new ground of rejection to the amended claims 1 and 5, has been submitted.

a) In page 7 of second paragraph applicant argues that: the prior art does not teach the subject matter of claim 1, wherein large size copy is scanned and then lines of the image data are divided in the sub scanning direction.

Examiner respectfully disagree with applicant in that Yoshihara which proposes reducing the large image size copy is divided into four pages scanned and transmitted or sent to anther device, and therefore, Yoshihara teach or suggest the subject matter of claim 1 of the present application, where in a large size copy scanned and image data are divided in the sub scanning direction and processed to be transmitted.

Furthermore, in response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Therefore, the rejection to claims 1 through 12, have been maintained, and this Office action is final.

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5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

#### Contact information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Negussie Worku whose telephone number is 57272-7472. The examiner can normally be reached on 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Aung Moe can be reached on 571-272-7314. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Negussie Worku

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EXAMINER

SUPERVISORY PATENT EXAMINATION 2/16/67